The Weekly Rigor

No. 292

"A mathematician is a machine for turning coffee into theorems."

January 25, 2020

10 Problems in Solving First-Degree Equations Involving Fractional Forms(Part 1)

PROBLEMS

Solve each equation, beginning by using the method of "clearing fractions."

1.
$$\frac{x}{2} - \frac{5}{6} = \frac{1}{2} + \frac{x}{6}$$
.

$$2. \ \frac{x}{2} + \frac{x}{6} = 4 - \frac{x}{3}.$$

3.
$$\frac{x}{2} + \frac{x}{3} = \frac{16}{3} + \frac{14}{3}$$
.

4.
$$\frac{x}{2} - \frac{x}{6} + 3 = \frac{x}{5} + \frac{23}{5}$$
.

5.
$$\frac{2x}{3} + \frac{x-1}{6} = \frac{3x+1}{2} - 10$$
.

6.
$$2x + \frac{x}{4} = 9$$
.